

Line Bundles in String Model Building

Monday, June 24, 2019 5:00 PM (30 minutes)

I discuss a recent count of heterotic line bundle models which suggests that the number of string standard models is exponentially large. In the second half of the talk, I focus on the underlying methods to compute line bundle cohomology. New analytic results for line bundle cohomology on complex manifolds point to an underlying mathematical structure which I discuss. Machine learning techniques may be helpful to uncover this structure.

Presenter: LUKAS, Andre (U)